Don R. Hush

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Education

PhD Elec Eng	1986	University of New Mexico
MS Elec Eng	1982	Kansas State University
BS Elec Eng	1980	Kansas State University (Summa Cum Laude)

Professional Experience

1998–present	Technical Staff Member, Los Alamos National Laboratory
1993–1998	Associate Professor, Computer Engineering, University of New Mexico
1987–1993	Assistant Professor, Computer Engineering, University of New Mexico
Summer 1991,1994,1996	Visiting Professor, Universidad de Vigo, Vigo, Spain
1986–1987	Technical Staff Member, Sandia National Laboratories
1994–1997	Associate Editor, IEEE Transactions on Neural Networks
1994–1998	Associate Editor, Signal Processing Magazine

Research Areas

Computational Learning Theory/Machine Learning/Pattern Recognition/Neural Networks
Numerical Optimization
Signal and Image Processing

Publications

Text Book:	1
Conference Papers:	60
Journal Papers:	18
Technical Reports:	14
Science Citations (1985-1997):	220+

Selected Recent Publications

D. Hush and C. Scovel, "On the VC dimension of bounded margin classifiers," to appear in *Machine Learning*, 2000.

D. Hush, "Training a sigmoid node is hard," *Neural Computation*, Vol. 11, pp. 1249–1260, 1999.

D. Hush and B. Horne, "Efficient algorithms for function approximation with piecewise linear sigmoidal networks," *IEEE Trans. Neural Networks*, Vol. 9, No. 6, pp. 1129–1141, 1998.

D.R. Hush, B. Horne and F. Lozano, "Function Approximation with the Sweeping Hinge Algorithm," Neural Information Processing Systems 10, pp. 535–541, 1998.